

## AMENDMENTS TO THE CLAIMS

### Listing of the Claims:

Following is a listing of all claims in the present application, which listing supersedes all previously presented claims:

10. (Currently Amended). A tuning-fork ~~type~~ vibration gyro ~~having~~ comprising:  
a ferroelectric tuning-fork vibration body generating a sensor signal; and  
a sensor circuit to which ~~[[a]]~~ the sensor signal generated by ~~[[a]]~~ the tuning-fork  
~~type~~ vibration body is input, said sensor circuit ~~comprising~~ including:  
a differential amplifier having two input terminals between ~~to~~ which said  
sensor signal is input; and  
a capacitor ~~or a voltage limiting element~~ being connected between the two  
input ~~to~~ terminals of said differential amplifier.

11. (Currently Amended) The tuning-fork ~~type~~ vibration gyro according to  
claim ~~10~~ 19 wherein each of said voltage limiting elements ~~element~~ is a Zener diode~~[[,]]~~  
~~and said and said Zener diode, said capacitor and said differential amplifier are~~  
~~integrated into one piece.~~

12. (Currently Amended) A tuning-fork ~~type~~ vibration gyro ~~having~~ comprising:  
a ferroelectric tuning-fork vibration body generating a sensor signal; and  
a sensor circuit to which ~~[[a]]~~ the sensor signal generated by ~~[[a]]~~ the tuning-fork  
~~type~~ vibration body is input, said sensor circuit ~~comprising~~ including:

a differential amplifier having two input terminals between to which said sensor signal is input; and

two inductors, each being connected in series to each of the input terminals of said differential amplifier.

13. (Currently Amended) The tuning-fork ~~type~~ vibration gyro according to claim 10, 12, 18 or 19, wherein said differential amplifier ~~comprises~~[[:]] is formed in an integrated circuit and includes:

a first stage ~~transistor~~ having two transistors being differentially connected; succeeding stages having transistors connected to the first stage; and [[a]] guard electrodes, each surrounding each of the two transistors of the first stage and being connected to a ground potential, that prevent pyroelectric noise from flowing from the transistors of the first stage to the transistors of the succeeding stages ~~electrode for separating said first stage transistor from transistors in succeeding stages.~~

14. (Canceled)

15. (Currently Amended) The ~~[[A]]~~ tuning-fork ~~type~~ vibration gyro according to claim 10, 12, 18 or 19, comprising:

wherein ~~[[a]]~~ the tuning-fork ~~type~~ vibration body has ~~having~~ two arms disposed in parallel and a base for commonly supporting one end of said each arm, ~~wherein~~ a longitudinal direction of said two arms being ~~is~~ defined as a z-axis and a perpendicular

direction to the two arms being thereto is defined as an x-axis<sub>[[;]]</sub> and further comprising:

a sensor circuit to which the <sub>[[a]]</sub> sensor signal generated by said tuning-fork type vibration body is input<sub>[[,]]</sub>

~~wherein said tuning-fork type vibration body further comprises:~~

driving electrodes respectively formed on said two arms for generating vibration of said two arms in a direction parallel to said x-axis;

detecting electrodes respectively formed on said two arms for detecting electromotive force generated when said tuning-fork type vibration body rotates around said z-axis; and

dummy electrodes formed on said two arms in respective areas different from said driving electrodes and said detecting electrodes<sub>[[,]]</sub> and,

~~said sensor circuit comprises:~~

~~a differential amplifier to which said sensor signal is input; and~~

~~a capacitor or a voltage limiting element being connected to input terminals of said differential amplifier.~~

18. (New) A tuning-fork vibration gyro comprising:  
a ferroelectric tuning-fork vibration body generating a sensor signal; and  
a sensor circuit to which the sensor signal generated by the tuning-fork vibration body is input, said sensor circuit including:

a differential amplifier having two input terminals between which said sensor signal is input; and

two capacitors, each having one end connected to a respective one of the two input terminals of the differential amplifier and a second end commonly connected to a ground potential.

19. (New) A tuning-fork vibration gyro comprising:  
a ferroelectric tuning-fork vibration body generating a sensor signal; and  
a sensor circuit to which the sensor signal generated by the tuning-fork vibration body is input, said sensor circuit including:

a differential amplifier having two input terminals between which said sensor signal is input; and

two voltage limiting elements, each having one end connected to a respective one of the two input terminals of the differential amplifier and a second end commonly connected to a ground potential.